QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency: Sri. Umesh N, Contractor, Bangalore.

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

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2021-22

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

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Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

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QC ABSTRACT

Nameof Work:Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Material	16.16 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	Steel	2.35 Tonne	1	1	-	-
3	M25	23.47 Cum	3	3	Concrete Cube Compressive Strength	-
4	CC Blocks	94.62 Sqm	1	1	Concrete Cube Compressive Strength	-
5	M15	1.26 Cum	1	1	Concrete Cube Compressive Strength	-
6	CPVC Pipe 20mm dia	60 m	1	1		-
7	CPVC Pipe 25mm dia	60 m	1	1		-
8	CPVC Pipe 32mm dia	50 m	1	1		-
9	CPVC Pipe 50mm dia	300 m	1	1		-
10	PVC Pipe 20mm dia	73 m	1	1		-
11	PVC Pipe 250mm dia	300 Rmt	1	1		-
12	WMM	33.75Cum	-	-	-	-
		Gradation	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Atterberg Limits	1	1	-	-
13	M10	33.75Cum	4	4	Concrete Cube Compressive Strength	-
14	M30	33.75Cum	4	4	Concrete Cube Compressive Strength	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
>30 Cum 4Set
Add 1Set for extra 50Cum

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 16.12.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri. Umesh N, Contractor, Bangalore.**
NAME OF THE WORK	:	Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		December - 2021
DATE OF TESTING		14.12.2021 to 16.12.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date : 16.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work :Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Date of Testing : 16.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	126	12.60	21.50	78.5	75-100
1.18	182	18.20	39.70	60.3	55-90
600 Micron	165	16.50	56.20	43.8	35-59
300 Micron	256	25.60	81.80	18.2	8-30
150 Micron	138	13.80	95.60	4.4	0-10

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work :Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Date of Testing : 16.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Date : 16.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work :Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Date of Testing : 16.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	195	1.30	1.30	98.70	95-100
20	8263	55.09	56.39	43.61	30-70
10	3256	21.71	78.09	21.91	10-35
4.75	2821	18.81	96.90	3.10	0-5

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date : 16.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Date of Testing : 16.12.2021

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	19	1.90	1.90	98.1	90-100
1.18	32	3.20	5.10	94.9	70-100
600 Micron	85	8.50	13.60	86.4	40-100
300 Micron	261	26.10	39.70	60.3	5-70
150 Micron	475	47.50	87.20	12.8	0-15

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Date : 16.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Date of Testing : 16.12.2021

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	13	1.30	1.30	98.7	95-100
2.36	18	1.80	3.10	96.9	95-100
1.18	33	3.30	6.40	93.6	90-100
600 Micron	75	7.50	13.90	86.1	80-100
300 Micron	265	26.50	40.40	59.6	20-65
150 Micron	510	51.00	91.40	8.6	0-15

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date : 17.12.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client — **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

AGENCY — **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Steel Dia/Length : 8mm,10mm,12mm,16mm," Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 17.12.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	553	640	1.16	14
2	TMT	10	0.618	568	656	1.15	15
3	TMT	12	0.889	575	668	1.16	14.5
4	TMT	16	1.59	580	675	1.16	14

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date : 12.01.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency :**Sri. Umesh N, Contractor, Bangalore.**

Name of the Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Date of Testing : 10.01.2022 to 12.01.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.6	322.9	5.38	2133.33	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	24.8	335.1	5.59	2066.67	
3	Block 3	27.5	344.4	5.74	2291.67	
4	Block 4	26.9	357.5	5.96	2241.67	

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Prajwal

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 03.03.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Yelahanka SatelliteTown Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 03.03.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1	Min 22 mm Max 22.4 mm
4	Density	1465 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 03.03.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample Supplied by: : AGENCY

BIS Code: : IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: : CPVC pipe 25mm dia

Date of Testing : 03.03.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.6	28.6 mm
2	Mean Outside Diameter (mm)	28.6	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.7	Min 28.4 mm Max 28.8 mm
4	Density	1450 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date:04.04.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 50mm dia

Date of Testing 04.04.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	53.9	Min 53.7 mm Max 54.3 mm
4	Density	1570 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 03.03.2022

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample Supplied by : AGENCY

BIS Code IS 4985:2000

Sample Identification PVC pipe 20mm dia

Date of Testing 03.03.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	20	20 mm
2	Mean Outside Diameter (mm)	21.5	Min 21 mm Max 23 mm
3	Outside Diameter at Any Point (mm)	22	Min 21.5 mm Max 22.5 mm

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 03.03.2022

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample Supplied by : AGENCY

BIS Code IS 4985:2000

Sample Identification PVC pipe 250mm dia

Date of Testing 03.03.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	250	20 mm
2	Mean Outside Diameter (mm)	251.5	Min 251 mm Max 253 mm
3	Outside Diameter at Any Point (mm)	252	Min 251.5 mm Max 252.5 mm

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 27.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement concrete for Footings

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2021	27.12.2021	8.168	389.6	17.32
2	20.12.2021	27.12.2021	8.152	405.2	18.01
3	20.12.2021	27.12.2021	8.119	416.2	18.50

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 06.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement concrete for Plinth Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.12.2021	06.01.2022	8.145	398.6	17.72
2	30.12.2021	06.01.2022	8.188	406.2	18.05
3	30.12.2021	06.01.2022	8.176	400.8	17.81

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 27.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement concrete for Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2022	27.01.2022	8.128	395.6	17.58
2	20.01.2022	27.01.2022	8.156	389.1	17.29
3	20.01.2022	27.01.2022	8.164	408.1	18.14

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 17.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement concrete for Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2022	17.02.2022	8.198	623.6	27.72
2	20.01.2022	17.02.2022	8.184	635.2	28.23
3	20.01.2022	17.02.2022	8.156	618.9	27.51

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 01.03.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri. Umesh N, Contractor, Bangalore.**
Name of the work	: Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.02.2022	01.03.2022	8.168	375.3	16.68
2	01.02.2022	01.03.2022	8.184	369.3	16.41
3	01.02.2022	01.03.2022	8.146	383.6	17.05

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date : 05.01.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of Work :Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 05.01.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	184	184	1.8	98.2	95-100
22.4	2536	2720	27.2	72.8	60-80
11.2	2150	4870	48.7	51.3	40-60
4.75	1845	6715	67.2	32.9	25-40
2.36	1189	7904	79.0	21.0	15-30
0.600	582	8486	84.9	15.1	8-22
0.075	1232	9718	97.2	2.8	0-5

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 18.04.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore**

Contractor : **Sri. Umesh N, Contractor, Bangalore**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.115	168.9	7.51
2	11.04.2022	18.04.2022	8.126	184.6	8.20
3	11.04.2022	18.04.2022	8.110	173.6	7.72

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 18.04.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore**

Contractor : **Sri. Umesh N, Contractor, Bangalore**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.132	178.9	7.95
2	11.04.2022	18.04.2022	8.125	168.8	7.50
3	11.04.2022	18.04.2022	8.119	182.6	8.12

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 18.04.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore**

Contractor : **Sri. Umesh N, Contractor, Bangalore**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.125	168.9	7.51
2	11.04.2022	18.04.2022	8.132	176.9	7.86
3	11.04.2022	18.04.2022	8.115	182.4	8.11

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 26.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2022	26.04.2022	8.138	473.6	21.05
2	19.04.2022	26.04.2022	8.116	505.2	22.45
3	19.04.2022	26.04.2022	8.152	512.3	22.77

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2022	17.05.2022	8.198	725.2	32.23
2	19.04.2022	17.05.2022	8.188	716.3	31.84
3	19.04.2022	17.05.2022	8.168	708.9	31.51

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Job No.: CACE/BBMP/UN/W.No.04/2021-22

Date: 17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2022	17.05.2022	8.169	708.2	31.48
2	19.04.2022	17.05.2022	8.188	719.6	31.98
3	19.04.2022	17.05.2022	8.172	724.3	32.19

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 26.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2022	26.04.2022	8.184	512.2	22.76
2	19.04.2022	26.04.2022	8.169	509.3	22.64
3	19.04.2022	26.04.2022	8.155	484.9	21.55

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2022	17.05.2022	8.156	715.2	31.79
2	26.04.2022	17.05.2022	8.138	724.6	32.20
3	26.04.2022	17.05.2022	8.177	709.3	31.52

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Job No.: CACE/BBMP/UN/W.No.04/2021-22 Date: 17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Umesh N, Contractor, Bangalore.**

Name of the work : Construction of RO plants in ward no-04 of Yelahanka Satellite Town sub division.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.05.2022	17.05.2022	8.169	708.2	31.48
2	17.05.2022	17.05.2022	8.188	719.6	31.98
3	17.05.2022	17.05.2022	8.172	724.3	32.19

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